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**From:** Pantuck, Kenneth [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=43064A1F5B8642D2A062C410540B8362-KPANTUCK]  
**Sent:** 6/17/2021 1:28:55 PM  
**To:** pthomas@manuregy.com  
**Subject:** FW: Pounds of N & P per day from litter

Peter,

Do you know this information?

Ken

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**From:** Pantuck, Kenneth  
**Sent:** Saturday, June 12, 2021 6:08 AM  
**To:** pthomas@manuregy.com  
**Subject:** RE: Pounds of N & P per day from litter

Hi Peter,

What does one gasifier equate to? What can it typically handle?

? MGD wastewater treatment plant (Just so I don't try to sell this concept to dinks OR else figure how to combine them)

And

Number of chickens

Thanks

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**From:** pthomas@manuregy.com <pthomas@manuregy.com>  
**Sent:** Friday, June 11, 2021 10:13 PM  
**To:** Pantuck, Kenneth <Pantuck.Kenneth@epa.gov>  
**Subject:** Pounds of N & P per day from litter

Ken,

As I mentioned in my previous e-mail, our nitrogen and phosphorus removal is both lab-verifiable (i.e. certain) and far more economic than any land-based BMP such as riparian buffers, cover crops, stream fencing, etc.

Attached is the heat, mass, and nutrient balance for our upcoming gasification system in Wicomico County, Maryland. We will be drying and gasifying 82 tons of broiler litter per day, which = 2,500 tons of litter per month, which = 30,000 tons of litter per year. This represents 6,263 pounds of nitrogen per day and 1,435 pounds of phosphorus per day in the litter. Yes, \$5 million is an expensive facility, but we will be capturing or volatilizing about 2,250,000 pounds of lab-verifiable nitrogen every year, and capturing about 516,000 pounds of lab-verifiable phosphorus every year for the next 20+ years. You might want to mention these figures when you attend your next USDA-NRCS meeting.

Regards,

Peter Thomas  
Earthcare, LLC  
434-989-1417 (Cell)  
[www.earthcarellc.com](http://www.earthcarellc.com)